

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	333	(715/511).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/09/07 14:38
L4	946	(715/530).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/09/07 15:27
L5	153	(715/509).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/09/07 14:39
L6	2474	associat\$4 with version with data	US-PGPUB; USPAT	OR	ON	2005/09/07 15:27
L7	24	stor\$4 with recent with version with table	US-PGPUB; USPAT	OR	ON	2005/09/07 15:28
L8	3	6 and 7	US-PGPUB; USPAT	OR	ON	2005/09/07 15:28
L9	1309	stor\$4 with version with table	US-PGPUB; USPAT	OR	ON	2005/09/07 15:28
L10	161	6 and 9	US-PGPUB; USPAT	OR	ON	2005/09/07 15:28
L12	99	stor\$4 with version with second with table	US-PGPUB; USPAT	OR	ON	2005/09/07 15:28
L13	20	10 and 12	US-PGPUB; USPAT	OR	ON	2005/09/07 15:28
L14	1	8 and 13	US-PGPUB; USPAT	OR	ON	2005/09/07 15:28
L15	58	determin\$4 with version with number with location	US-PGPUB; USPAT	OR	ON	2005/09/07 15:29
L16	1	13 and 15	US-PGPUB; USPAT	OR	ON	2005/09/07 15:29
L17	57	15 not 16	US-PGPUB; USPAT	OR	ON	2005/09/07 15:29
L18	197	version with (different near value)	US-PGPUB; USPAT	OR	ON	2005/09/07 15:30
L19	11	18 and 9	US-PGPUB; USPAT	OR	ON	2005/09/07 15:30
L20	10	19 not 16	US-PGPUB; USPAT	OR	ON	2005/09/07 15:30
L21	10	increment\$4 with maximum with value with version	US-PGPUB; USPAT	OR	ON	2005/09/07 15:30
L22	1	sequential adj query adj language adj description adj area	US-PGPUB; USPAT	OR	ON	2005/09/07 15:31
L24	456	old\$4 with version with (table or database)	US-PGPUB; USPAT; EPO	OR	ON	2005/09/07 15:31
L25	1749	new\$4 with version with (table or database)	US-PGPUB; USPAT; EPO	OR	ON	2005/09/07 15:31

L26	290	24 and 25	US-PGPUB; USPAT; EPO	OR	ON	2005/09/07 15:31
L27	1	18 and 26	US-PGPUB; USPAT; EPO	OR	ON	2005/09/07 15:31

	Document ID	Issue Date	Title	Current OR
1	US 20050193015 A1	20050901	Method and apparatus for organizing, sorting and navigating multimedia content	707/104.1
2	US 20050081107 A1	20050414	Method and system for autonomic execution path selection in an application	714/38
3	US 20050081019 A1	20050414	Method and system for autonomic monitoring of semaphore operation in an application	712/227
4	US 20050081010 A1	20050414	Method and system for autonomic performance improvements in an application via memory relocation	711/165
5	US 20050065879 A1	20050324	System and method for web service billing	705/40
6	US 20050049916 A1	20050303	Method and system for facilitating client driven customer and employee performance improvement promotions	705/14
7	US 20040259062 A1	20041223	Method and apparatus for enhancing the integrity of mental competency tests	434/236

	Document ID	Issue Date	Title	Current OR
8	US 20040157254 A1	20040812	System and method for designing probes using heterogeneous genetic information, and computer readable medium	435/6
9	US 20040156371 A1	20040812	High speed parser	370/401
10	US 20040155695 A1	20040812	Multiplexer	327/407
11	US 20040081996 A1	20040429	Methods and products related to genotyping and DNA analysis	435/6
12	US 20030184475 A1	20031002	Radio-frequency badge for location measurement	342/465
13	US 20030070087 A1	20030410	System and method for automatic updating of multiple anti-virus programs	713/201
14	US 20020181369 A1	20021205	Copy protection system and method for optical disks and a copy protected optical disk	369/53.21
15	US 20020138452 A1	20020926	Electronic device with automatic capability for location-specific software configuration	705/401
16	US 20010053174 A1	20011220	Spread spectrum localizers	375/130
17	US 20010033607 A1	20011025	Spread spectrum localizers	375/150

	Document ID	Issue Date	Title	Current OR
18	US 6877037 B1	20050405	Method of updating client's installed data in response to a user-triggered event	709/227
19	US 6850980 B1	20050201	Content routing service protocol	709/226
20	US 6825706 B2	20041130	Multiplexer	327/407
21	US 6810519 B1	20041026	Achieving tight binding for dynamically loaded software modules via intermodule copying	717/166
22	US 6801331 B1	20041005	Method and system for controlling and communicating with machines using multiple communication formats	358/1.15
23	US 6795491 B2	20040921	Spread spectrum localizers	375/213
24	US 6720922 B2	20040413	Radio-frequency badge for location measurement	342/465
25	US 6708333 B1	20040316	Method and system for reporting failures of a program module in a corporate environment	717/171
26	US 6703228 B1	20040309	Methods and products related to genotyping and DNA analysis	435/91.2
27	US 6665797 B1	20031216	Protection of software against unauthorized use	713/193

	Document ID	Issue Date	Title	Current OR
28	US 6621781 B2	20030916	Copy protection system and method for optical disks and a copy protected optical disk	369/47.53
29	US 6545978 B1	20030408	Network managing method and system	370/236.2
30	US 6544179 B1	20030408	Ultrasound imaging system and method having automatically selected transmit focal positions	600/447
31	US 6456933 B1	20020924	Navigation method and navigation system for means of locomotion	701/209
32	US 6452885 B1	20020917	Copy protection system and method for optical disks and a copy protected optical disk	369/53.21
33	US 6400754 B2	20020604	Spread spectrum localizers	375/140
34	US 6385268 B1	20020507	Spread spectrum localizers	375/377
35	US 6330628 B1	20011211	Memory including a data structure used for identifying a communication protocol of a received communication	710/105
36	US 6330566 B1	20011211	Apparatus and method for optimizing client-state data storage	707/104.1
37	US 6282112 B1	20010828	Network storage system	365/52

	Document ID	Issue Date	Title	Current OR
38	US 6275981 B1	20010814	Method and system for correlating profile data dynamically generated from an optimized executable program with source code statements	717/158
39	US 6240369 B1	20010529	Transmitting location-specific weather-related data to terminals within a plurality of regions	702/3
40	US 6188973 B1	20010213	Automatic mapping, monitoring, and control of computer room components	702/188
41	US 6182286 B1	20010130	Dynamic versioning system for multiple users of multi-module software systems	717/122
42	US 6182284 B1	20010130	Method and system for eliminating phi instruction resource interferences and redundant copy instructions from static-single-assignment-form computer code	717/146
43	US 6178470 B1	20010123	Chip for CCSDS compatible serial data streams	710/52
44	US 6041319 A	20000321	Method and system for telephone updates of postal scales	705/409
45	US 6002708 A	19991214	Spread spectrum localizers	375/130

	Document ID	Issue Date	Title	Current OR
46	US 5956665 A	19990921	Automatic mapping, monitoring, and control of computer room components	702/188
47	US 5954797 A	19990921	System and method for maintaining compatibility among network nodes connected to a computer network	709/223
48	US 5881292 A	19990309	Dynamic versioning system for multiple users of multi-module software system	717/170
49	US 5875200 A	19990223	Reed-Solomon code system employing k-bit serial techniques for encoding and burst error trapping	714/784
50	US 5818603 A	19981006	Method and system for controlling and communicating with machines using multiple communication formats	358/296
51	US 5757372 A	19980526	Multiple nonlinear undo buttons	715/840
52	US 5748891 A	19980505	Spread spectrum localizers	375/150
53	US 5467134 A	19951114	Method and system for compressing video data	348/409.1
54	US 4832486 A	19890523	Method and apparatus or in vitro evalution of focal length and focal length changes in lenses from human and animal eyes	356/125

	Document ID	Issue Date	Title	Current OR
55	US 4714996 A	19871222	Impact calculation for version management in a distributed information service	707/203
56	US 4376977 A	19830315	Computer system with scannable program memory	711/201
57	US 3701972 A	19721031	DATA PROCESSING SYSTEM	710/36

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Relevance scale **1 [Query and view processing: On querying versions of multiversion data warehouse](#)**

Tadeusz Morzy, Robert Wrembel

November 2004 **Proceedings of the 7th ACM international workshop on Data warehousing and OLAP**Full text available:  [pdf\(244.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A data warehouse (DW) is fed with data that come from external data sources that are production systems. External data sources, which are usually autonomous, often change not only their content but also their structure. The evolution of external data sources has to be reflected in a DW, that uses the sources. Traditional DW systems offer a limited support for handling dynamics in their structure and content. A promising approach to handling changes in DW structure and content is based on a mu ...

Keywords: data versioning, data warehouse, metadata, multiversion query, schema versioning

2 [Database theory, technology and applications \(DTTA\): Creation and management of versions in multiversion data warehouse](#)

Bartosz B□bel, Johann Eder, Christian Koncilia, Tadeusz Morzy, Robert Wrembel

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**Full text available:  [pdf\(516.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A data warehouse (DW) provides an information for analytical processing, decision making, and data mining tools. On the one hand, the structure and content of a data warehouse reflects a real world, i.e. data stored in a DW come from real production systems. On the other hand, a DW and its tools may be used for predicting trends and simulating a virtual business scenarios. This activity is often called the what-if analysis. Traditional DW systems have static structure of their schemas and relati ...

Keywords: data warehouse, integrity constraints, versioning

3 [Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency between database and file systems](#)

Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(1.44 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

4 **Using Applications of Data Versioning in Database Application Development** 

Ramkrishna Chatterjee, Gopalan Arun, Sanjay Agarwal, Ben Speckhard, Ramesh Vasudevan
May 2004 **Proceedings of the 26th International Conference on Software Engineering**

Full text available:  pdf(166.57 KB)

Additional Information: [full citation](#), [abstract](#)

Database applications such as enterprise resource planning systems and customer relationship management systems are widely used software systems. Development and testing of database applications is difficult because the program execution depends on the persistent state stored in the database. In this paper we show that how versioning of the persistent data stored in the database can solve some critical problems in the development and testing of database applications can be solved by vers ...

5 **A linear-time scheme for version reconstruction** 

Lin Yu, Daniel J. Rosenkrantz

May 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 16 Issue 3

Full text available:  pdf(1.47 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An efficient scheme to store and reconstruct versions of sequential files is presented. The reconstruction scheme involves building a data structure representing a complete version, and then successively modifying this data structure by applying a sequence of specially formatted differential files to it. Each application of a differential file produces a representation of an intermediate version, with the final data structure representing the requested version. The scheme uses a ...

Keywords: data structures, database systems, differential files, document preparation, software systems, textual objects, version control

6 **Effective fine-grain synchronization for automatically parallelized programs using optimistic synchronization primitives** 

Martin C. Rinard

November 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 4

Full text available:  pdf(637.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents our experience using optimistic synchronization to implement fine-grain atomic operations in the context of a parallelizing compiler for irregular, object-based computations. Our experience shows that the synchronization requirements of these programs differ significantly from those of traditional parallel computations, which use loop nests to access dense matrices using affine access functions. In addition to coarse-grain barrier synchronization, our irregular comput ...

Keywords: atomic operations commutativity analysis, optimistic synchronization, parallel computing, parallelizing compilers, synchronization

7 [The BUCKY object-relational benchmark](#)

Michael J. Carey, David J. DeWitt, Jeffrey F. Naughton, Mohammad Asgarian, Paul Brown, Johannes E. Gehrke, Dhaval N. Shah

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2

Full text available:  [pdf\(1.48 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

According to various trade journals and corporate marketing machines, we are now on the verge of a revolution—the object-relational database revolution. Since we believe that no one should face a revolution without appropriate armaments, this paper presents BUCKY, a new benchmark for object-relational database systems. BUCKY is a query-oriented benchmark that tests many of the key features offered by object-relational systems, including row types and inheritance, references and path e ...

8 [SmartFiles: an OO approach to data file interoperability](#)

Matthew Haines, Piyush Mehrotra, John Van Rosendale

October 1995 **ACM SIGPLAN Notices , Proceedings of the tenth annual conference on Object-oriented programming systems, languages, and applications**,

Volume 30 Issue 10

Full text available:  [pdf\(1.59 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data files for scientific and engineering codes typically consist of a series of raw data values whose description is buried in the programs that interact with these files. In this situation, making even minor changes in the file structure or sharing files between programs (interoperability) can only be done after careful examination of the data files and the I/O statements of the programs interacting with this file. In short, scientific data files lack self-description, and other self-describin ...

9 [P1: "Yes, but does it scale?": practical considerations for database-driven information systems](#)

John Russell

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Full text available:  [pdf\(231.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper explores the process of designing and implementing a database-driven system of online documentation, and putting it live on the web for customers to use. Using real-life examples, it discusses practical considerations for balancing performance, scalability, and reliability.

Keywords: Oracle, automation, categorization, database, performance, reliability, scalability, web services

10 [Change management: An infrastructure for development of object-oriented, multi-level configuration management services](#)

Tien N. Nguyen, Ethan V. Munson, John T. Boyland, Cheng Thao

May 2005 **Proceedings of the 27th international conference on Software engineering**

Full text available: Additional Information:

 pdf(418.74 KB)[full citation](#), [abstract](#), [references](#), [index terms](#)

In an integrated development environment, the ability to manage the evolution of a software system in terms of logical abstractions, compositions, and their interrelations is crucial to successful software development. This paper presents a novel framework and infrastructure, *Molhado*, upon which to build *object-oriented* software configuration management (SCM) services in a SCM-centered integrated development environment. Key contributions of this paper include a *product versioni* ...

Keywords: *software configuration management, version control*

11 Profiling a parallel language based on fine-grained communication

Bjoern Haake, Klaus E. Schauser, Chris Scheiman

November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00**

Full text available:  pdf(198.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fine tuning the performance of large parallel programs is a very difficult task. A profiling tool can provide detailed insight into the utilization and communication of the different processors, which helps identify performance bottlenecks. In this paper we present a profiler for the fine-grained parallel programming language Split-C, which provides a simple global address space memory model. As our experience shows, it is much more challenging to profile programs that make use of efficient ...

Keywords: Parallel programming, performance analysis, profiling, fine-grained communication, Split-C, Active Messages

12 An experimental analysis of the performance of fourth generation tools on PCs

Victor M. Matos, Paul J. Jalics

November 1989 **Communications of the ACM**, Volume 32 Issue 11

Full text available:  pdf(1.52 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The performance of several Fourth Generation Language (4GL) tools is analyzed empirically and compared with equivalent programs written in the third generation COBOL programming language. A set of performance benchmarks consisting of thirteen separate functions is presented which encompasses the areas of simulating the operators of the relational algebra, accessing records in the database, and updating the database. This serves as a baseline for comparing the various 4GL systems.

13 Satellite-based information services: Cost based data dissemination in satellite networks

Bo Xu, Ouri Wolfson, Sam Chamberlain, Naphtali Rish

January 2002 **Mobile Networks and Applications**, Volume 7 Issue 1

Full text available:  pdf(312.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the problem of data dissemination in a broadcast network. In contrast to previously studied models, broadcasting is among peers, rather than client server. Such a model represents, for example, satellite communication among widely distributed nodes, sensor networks, and mobile ad hoc networks. We introduce a cost model for data dissemination in peer to peer broadcast networks. The model quantifies the tradeoff between the inconsistency of the data, and its transmission cost; the tran ...

Keywords: data replication, distributed databases, satellite networks

14 Are bitvectors optimal?

H. Buhrman, P. B. Miltersen, J. Radhakrishnan, S. Venkatesh

May 2000 **Proceedings of the thirty-second annual ACM symposium on Theory of computing**

Full text available:  pdf(1.01 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**15 Database performance in the real world: TPC-D and SAP R/3**

Joachen Doppelhammer, Thomas Höppler, Alfons Kemper, Donald Kossmann

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2

Full text available:  pdf(1.54 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Traditionally, database systems have been evaluated in isolation on the basis of standardized benchmarks (e.g., Wisconsin, TPC-C, TPC-D). We argue that very often such a performance analysis does not reflect the actual use of the DBMSs in the "real world." End users typically don't access a stand-alone database system; rather they use a comprehensive application system, in which the database system constitutes an integrated component. In order to derive performance evalu ...

16 Experiments with an ocean circulation model on CEDAR

L. DeRose, K. Gallivan, E. Gallopoulos

August 1992 **Proceedings of the 6th international conference on Supercomputing**

Full text available:  pdf(1.41 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



We present the design of the GFDL ocean circulation model as adapted for simulations of the Mediterranean basin for the Cedar multicluster architecture. The model simulates the basic aspects of large-scale, baroclinic ocean circulation, including treatment of irregular bottom topography. The data and computational mapping strategies and their effect on the design are discussed. The code was parametrized to offer several choices for data partitionings of the computational domain, for placeme ...

17 The logical disk: a new approach to improving file systems

Wiebren de Jonge, M. Frans Kaashoek, Wilson C. Hsieh

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles**, Volume 27 Issue 5

Full text available:  pdf(1.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The Logical Disk (LD) defines a new interface to disk storage that separates file management and disk management by using logical block numbers and block lists. The LD interface is designed to support multiple file systems and to allow multiple implementations, both of which are important given the increasing use of kernels that support multiple operating system personalities. A log-structured implementation of LD (LLD) demonstrates that LD can be implemented efficiently. LLD adds about 5% to 10% ...

Keywords: MINIX, UNIX, disk storage management, file system organization, file system performance, high write performance, log-structured file system, logical disk

18 Physical design: Handling big dimensions in distributed data warehouses using the DWS technique

Marco Costa, Henrique Madeira

November 2004 Proceedings of the 7th ACM international workshop on Data warehousing and OLAP

Full text available:  [pdf\(288.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The DWS (Data Warehouse Striping) technique allows the distribution of large data warehouses through a cluster of computers. The data partitioning approach partition the facts tables through all nodes and replicates the dimension tables. The replication of the dimension tables creates a limitation to the applicability of the DWS technique to data warehouses with big dimensions. This paper proposes a strategy to handle large dimensions in a distributed DWS system and evaluates the proposed str ...

Keywords: data warehousing, distributed query execution

19 Compiler-directed run-time monitoring of program data access 

Chen Ding, Yutao Zhong

June 2002 ACM SIGPLAN Notices , Proceedings of the 2002 workshop on Memory system performance, Volume 38 Issue 2 supplement

Full text available:  [pdf\(1.40 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Accurate run-time analysis has been expensive for complex programs, in part because most methods perform on all a data. Some applications require only partial reorganization. An example of this is off-loading infrequently used data from a mobile device. Complete monitoring is not necessary because not all accesses can reach the displaced data. To support partial monitoring, this paper presents a framework that includes a source-to-source C compiler and a run-time monitor. The compiler inserts ru ...

20 Making data structures confluently persistent 

Amos Fiat, Haim Kaplan

January 2001 Proceedings of the twelfth annual ACM-SIAM symposium on Discrete algorithms

Full text available:  [pdf\(924.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We address a longstanding open problem of [8, 7], and present a general transformation that takes any data structure and transforms it to a confluently persistent data structure. We model this general problem using the concepts of a version DAG (Directed Acyclic Graph) and an instantiation of a version DAG. We introduce the concept of the effective depth of a vertex in the version DAG and use it to derive information theoretic lower bounds on the space expansion of any such transformation for ...

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